

## ASSIGNMENT OF PATENT APPLICATION

WHEREAS, Manoneet Singh of 600 Marathon Drive, Apt. 105, Campbell, California 95008, hereafter referred to as "Assignor", has invented certain new and useful inventions as described and set forth in the below identified application for the United States Letter Patent entitled:

### Method and Apparatus for Multicarrier Channel Estimation and Synchronization Using Pilot Sequences

filed herewith; or  
 Serial No. \* \* \* filed on \* \* \*;

WHEREAS, Radia Communications, Inc. of 275A North Mathilda Avenue, Sunnyvale, California 94086, hereinafter referred to as "Assignee", is desirous of acquiring an interest in the invention and application and in any Letters Patent which may be granted on the same;

FOR good and valuable consideration, receipt of which is hereby acknowledged by Assignor, Assignor has assigned, and by these presents does assign all right, title and interest in and to the invention and application, all foreign counterparts (including patent, utility model and industrial designs), and all future improvements thereon, and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been and enjoyed by Assignor had this assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignor further agrees that he will, without charge to the Assignee, but at the Assignee's expense, (a) cooperate with Assignee in the prosecution of the U. S. patent application and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignor hereunto signs.

Manoneet Singh  
signature of Manoneet Singh

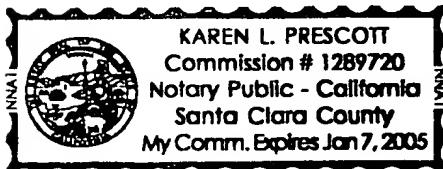
Oct. 10, 2001  
date

In the county of Santa Clara, state of California,

before me this date October 10, 2001 personally appeared Manoneet Singh who is  personally known to me or  proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person or the entity upon behalf of which the person acted executed the document.

Notary Stamp/Seal

Karen L. Prescott  
Notary Public



10/16/2001 AADOF01 00000027 09975667  
40.00 DP  
04 FC:581

Docket ID RAD295

## ASSIGNMENT OF PATENT APPLICATION

WHEREAS, Arvind Lonkar of 2636 Newhall Street, No. 42, Santa Clara, California 95050, hereafter referred to as "Assignor", has invented certain new and useful inventions as described and set forth in the below identified application for the United States Letter Patent entitled:

### Method and Apparatus for Multicarrier Channel Estimation and Synchronization Using Pilot Sequences

filed herewith; or  
 Serial No. \* \* \* filed on \* \* \*;

WHEREAS, Radia Communications, Inc. of 275A North Mathilda Avenue, Sunnyvale, California 94086, hereinafter referred to as "Assignee", is desirous of acquiring an interest in the invention and application and in any Letters Patent which may be granted on the same;

FOR good and valuable consideration, receipt of which is hereby acknowledged by Assignor, Assignor has assigned, and by these presents does assign all right, title and interest in and to the invention and application, all foreign counterparts (including patent, utility model and industrial designs), and all future improvements thereon, and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been and enjoyed by Assignor had this assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignor further agrees that he will, without charge to the Assignee, but at the Assignee's expense, (a) cooperate with Assignee in the prosecution of the U. S. patent application and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignor hereunto signs.

A. V. Lonkar  
signature of Arvind Lonkar

Oct 10, 2001

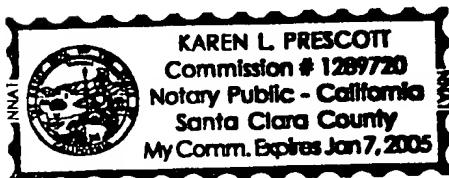
date

In the county of Santa Clara, state of California,

October 10, 2001  
before me this date Arvind Lonkar KLP personally appeared Arvind Lonkar who is   
personally known to me or  proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person or the entity upon behalf of which the person acted executed the document.

Notary Stamp/Seal

Karen L. Prescott  
Notary Public



## ASSIGNMENT OF PATENT APPLICATION

WHEREAS, Jerry Krinock of 1023 Newhall Street, San Jose, California 95126, hereafter referred to as "Assignor", has invented certain new and useful inventions as described and set forth in the below identified application for the United States Letter Patent entitled:

### Method and Apparatus for Multicarrier Channel Estimation and Synchronization Using Pilot Sequences

x filed herewith; or  
       Serial No. \* \* \* filed on \* \* \*;

WHEREAS, Radia Communications, Inc. of 275A North Mathilda Avenue, Sunnyvale, California 94086, hereinafter referred to as "Assignee", is desirous of acquiring an interest in the invention and application and in any Letters Patent which may be granted on the same;

FOR good and valuable consideration, receipt of which is hereby acknowledged by Assignor, Assignor has assigned, and by these presents does assign all right, title and interest in and to the invention and application, all foreign counterparts (including patent, utility model and industrial designs), and all future improvements thereon, and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been and enjoyed by Assignor had this assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignor further agrees that he will, without charge to the Assignee, but at the Assignee's expense, (a) cooperate with Assignee in the prosecution of the U. S. patent application and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignor hereunto signs.

Jerry Krinock 2001 Oct 10  
signature of Jerry Krinock date

In the county of Santa Clara, state of California,

before me this date October 10, 2001 personally appeared Jerry Krinock who is X personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person or the entity upon behalf of which the person acted executed the document.

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Karen L. Prescott  
Notary Public

